

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P845207

Luminaire Tested: **SQ4P-PR1-125U-075D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845207
REPORT IS A COMBINATION OF REPORTS P700120 AND P700247
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PR1-125U-075D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

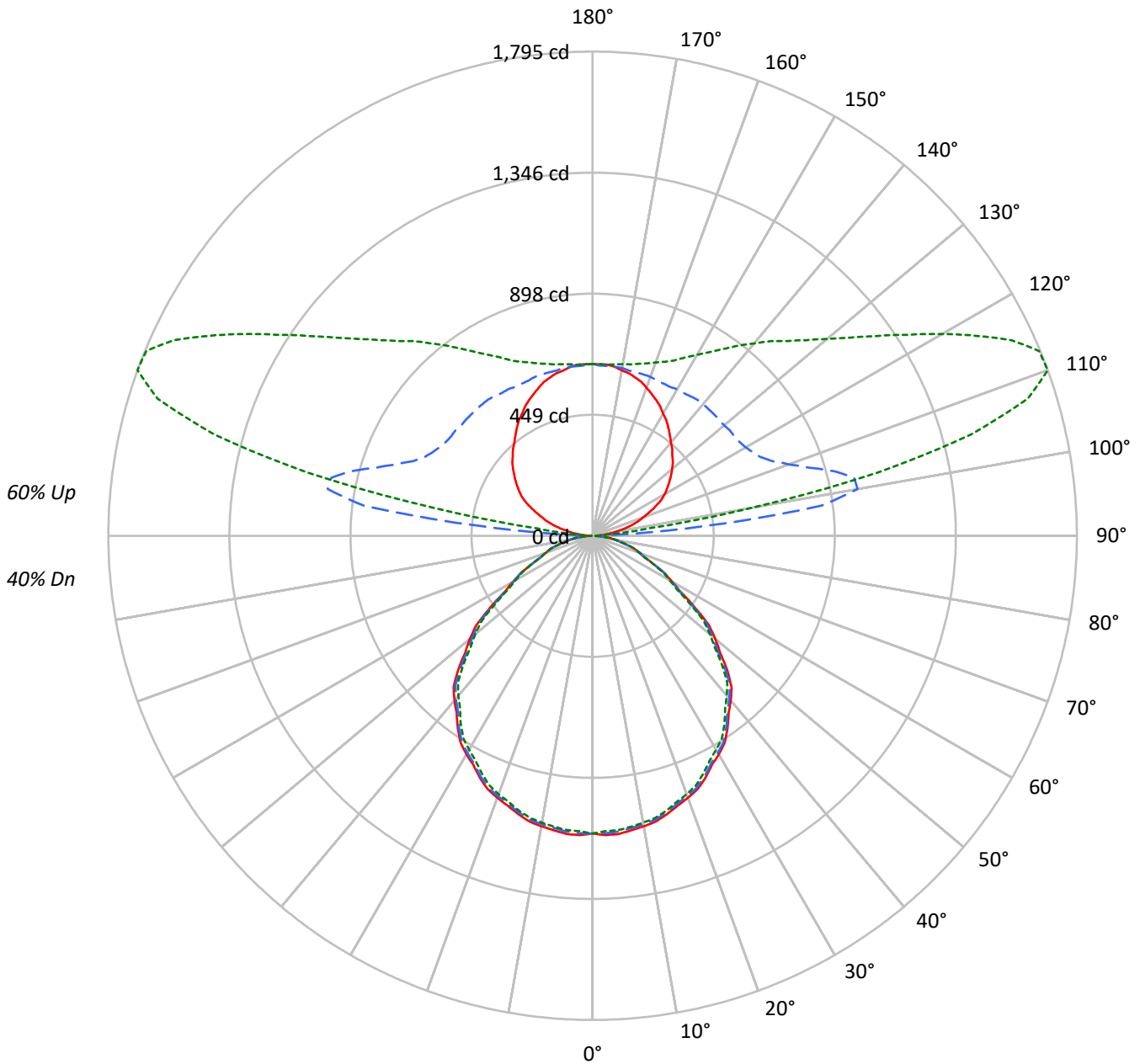
Lumens per Lamp: N/A
Luminaire Lumens: 6891.5 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 59.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40																			
1	96	92	88	84	87	84	80	78	68	66	64	55	53	52	42	41	40	34																			
2	87	80	74	69	79	73	68	64	60	57	54	48	46	44	37	36	34	29																			
3	80	71	64	58	72	65	59	54	53	49	45	43	40	37	33	31	29	25																			
4	73	63	55	49	66	57	51	46	47	43	39	38	35	32	30	27	25	21																			
5	67	56	48	42	61	51	44	39	42	37	33	34	31	28	27	24	22	19																			
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	24	22	20	17																			
7	57	45	37	32	52	42	35	30	35	29	26	28	24	21	22	20	17	15																			
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	20	18	16	13																			
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12																			
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	17	15	13	11																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10184	10184	10184
5°	10276	10198	10144
10°	10244	10172	10118
15°	10199	10135	10080
20°	10148	10081	10008
25°	10075	10009	9892
30°	9966	9897	9754
35°	9820	9735	9595
40°	9595	9492	9321
45°	9205	9043	8857
50°	8516	8311	8147
55°	7431	7266	7113
60°	6265	6211	6087
65°	5418	5438	5397
70°	4974	4999	4999
75°	4780	4780	4812
80°	4490	4543	4490
85°	3620	4033	4033



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	1.5
10°-20°	298.7	4.3
20°-30°	450.5	6.5
30°-40°	536.8	7.8
40°-50°	529.2	7.7
50°-60°	404.4	5.9
60°-70°	250.2	3.6
70°-80°	142.1	2.1
80°-90°	44.8	0.6
90°-100°	253.3	3.7
100°-110°	881.3	12.8
110°-120°	853.7	12.4
120°-130°	669.7	9.7
130°-140°	530.1	7.7
140°-150°	409.1	5.9
150°-160°	293.2	4.3
160°-170°	179.4	2.6
170°-180°	60.7	0.9
0°-30°	853.6	12.4
0°-40°	1390.3	20.2
0°-60°	2323.9	33.7
0°-90°	2761.1	40.1
90°-120°	1988.3	28.9
90°-150°	3597.1	52.2
90°-180°	4130.0	59.9
0°-180°	6891.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1104	1104	1104	1104	1104	
5°	1110	1098	1101	1097	1095	105
15°	1068	1057	1061	1057	1055	301
25°	990	978	983	973	972	455
35°	872	862	864	853	852	544
45°	706	696	693	681	679	540
55°	462	455	452	444	442	414
65°	248	246	249	247	247	251
75°	134	134	134	135	135	142
85°	34	36	38	38	38	40
90°	10	14	14	10	5	7
95°	43	147	427	109	66	45
105°	147	209	926	1563	1453	155
115°	256	309	689	1453	1714	253
125°	347	427	641	1083	1292	310
135°	418	470	636	902	1021	324
145°	489	522	632	779	845	306
155°	556	575	622	693	717	256
165°	608	613	627	655	660	171
175°	636	636	632	641	636	60
180°	636	636	636	636	636	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1103.8	1103.8	1103.8	1103.8	<i>1103.8</i>
2.5°	1110.8	1101.1	1103.8	1101.6	<i>1096.3</i>
5°	1109.6	1097.5	1101.1	1097.1	<i>1095.3</i>
7.5°	1101.1	1089.0	1092.7	1088.8	<i>1087.8</i>
10°	1093.4	1082.2	1085.8	1082.0	<i>1080.0</i>
12.5°	1085.0	1073.2	1077.5	1072.9	<i>1071.0</i>
15°	1067.8	1056.7	1061.1	1057.3	<i>1055.3</i>
17.5°	1048.7	1036.8	1041.4	1037.0	<i>1034.5</i>
20°	1033.6	1022.4	1026.8	1020.3	<i>1019.3</i>
22.5°	1016.8	1005.7	1010.1	1001.3	<i>1001.1</i>
25°	989.7	977.7	983.2	972.7	<i>971.7</i>
27.5°	957.6	946.5	951.0	940.3	<i>939.3</i>
30°	935.5	924.4	929.0	917.5	<i>915.6</i>
32.5°	910.5	900.1	903.9	892.5	<i>891.3</i>
35°	871.9	861.6	864.3	852.9	<i>851.9</i>
37.5°	828.0	818.7	820.1	807.5	<i>806.7</i>
40°	796.7	787.5	788.1	774.9	<i>773.9</i>
42.5°	762.6	753.3	752.4	739.2	<i>738.2</i>
45°	705.5	696.2	693.1	680.7	<i>678.8</i>
47.5°	640.5	631.2	625.4	615.2	<i>614.0</i>
50°	593.3	584.0	579.0	570.4	<i>567.6</i>
52.5°	542.3	533.0	528.9	521.0	<i>518.2</i>
55°	462.0	454.6	451.7	444.0	<i>442.2</i>
57.5°	385.8	380.9	379.9	372.5	<i>371.8</i>
60°	339.5	336.6	336.6	329.9	<i>329.9</i>
62.5°	299.9	297.8	299.2	294.8	<i>294.2</i>
65°	248.2	246.3	249.1	247.2	<i>247.2</i>
67.5°	207.4	207.4	208.9	208.1	<i>208.1</i>
70°	184.4	184.4	185.3	185.3	<i>185.3</i>
72.5°	163.9	163.2	165.7	165.6	<i>164.9</i>
75°	134.1	134.1	134.1	135.0	<i>135.0</i>
77.5°	104.4	104.6	105.4	105.2	<i>104.4</i>
80°	84.5	85.5	85.5	84.5	<i>84.5</i>
82.5°	64.9	65.8	65.8	65.6	<i>64.9</i>
85°	34.2	36.0	38.1	38.1	<i>38.1</i>
87.5°	9.8	12.8	15.3	15.3	<i>14.4</i>
90°	9.5	14.3	14.3	9.5	<i>4.8</i>
92.5°	23.8	71.2	66.4	28.5	<i>23.8</i>
95°	42.8	147.3	427.4	109.2	<i>66.4</i>
97.5°	66.4	166.3	854.9	389.5	<i>209.0</i>
100°	90.2	175.8	997.4	935.6	<i>603.2</i>
102.5°	118.7	189.9	992.7	1315.6	<i>1082.9</i>
105°	147.3	209.0	926.1	1562.6	<i>1453.4</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	228.0	280.3	721.9	1572.1	1790.6
115°	256.5	308.7	688.7	1453.4	1714.5
117.5°	285.0	342.0	669.6	1344.2	1605.3
120°	308.7	370.5	655.4	1239.6	1496.1
122.5°	327.7	399.0	646.0	1154.1	1386.8
125°	346.7	427.4	641.2	1082.9	1291.9
127.5°	365.7	446.4	641.2	1030.6	1206.4
130°	384.7	455.9	636.5	978.4	1135.1
132.5°	403.8	460.7	636.5	940.4	1073.4
135°	417.9	470.2	636.5	902.4	1021.1
137.5°	436.9	479.7	636.5	869.2	978.4
140°	451.2	494.0	636.5	835.9	930.9
142.5°	470.2	508.2	636.5	802.6	888.1
145°	489.2	522.5	631.7	778.9	845.4
147.5°	508.2	536.6	627.0	755.2	807.4
150°	522.5	550.9	627.0	731.4	774.1
152.5°	541.4	565.2	622.2	707.7	745.7
155°	555.7	574.7	622.2	693.4	717.2
157.5°	569.9	588.9	622.2	679.2	698.2
160°	584.2	598.4	627.0	669.6	683.9
162.5°	598.4	608.0	627.0	660.1	669.6
165°	608.0	612.7	627.0	655.4	660.1
167.5°	617.5	622.2	627.0	650.6	650.6
170°	622.2	627.0	631.7	646.0	646.0
172.5°	631.7	631.7	631.7	641.2	641.2
175°	636.5	636.5	631.7	641.2	636.5
177.5°	636.5	636.5	631.7	641.2	636.5
180°	636.5	636.5	636.5	636.5	636.5



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	175.8	232.7	840.7	1671.8	1690.9
110°	199.4	256.5	774.1	1657.6	1795.3



(END OF REPORT)